Compliance Component

DEFINITION

Name	Virus Detection and Elimination Criteria for Workstations
Description	To make available to the State of Missouri Enterprise a set of minimum criteria for the selection of anti-virus software and products for security protection of workstations.
Rationale	All workstations within the State of Missouri computer environment shall execute an anti-virus security product that conforms to a minimum set of compliance criteria. These criteria shall serve as a checklist to help administrators choose the appropriate anti-virus solution for their environment.
Benefits	To significantly improve workstation trust and security through a set of criteria for the following security services: 1. Protection to workstation computer systems and media from computer virus intrusion. 2. Detection of computer viruses on an infected workstation system or media. 3. Workstation recovery from a computer virus infection.

ASSOCIATED ARCHITECTURE LEVELS

List the Domain Name	Security
List the Discipline Name	Technical Controls
List the Technology Area Name	Virus Detection and Elimination
List Product Component Name	

COMPLIANCE COMPONENT TYPE

Document the Compliance Component Type	Guideline
Component Sub-type	

COMPLIANCE DETAIL

State the Guideline, Standard or Legislation	**Virus Detection and Elimination Criteria for Workstations** State of Missouri computer workstations shall be protected with anti-virus software and procedures that meet the checklist of criteria detailed in the following service areas. General Workstation Anti-Virus Criteria • Virus scanner software shall be run on all workstations even if the networks perimeter devices are scanning for viruses. • All workstations shall be scanned for viruses at least once a day. • Workstation anti-virus software shall provide integration capabilities with an enterprise anti-virus policy management suite. • All State of Missouri workstations shall execute a virus scan product certified by the ICSA Labs (http://www.icsalabs.com). ICSA Labs

certification requires anti-virus products to detect 100% of all viruses "in the wild" as captured by the WildList Organization International (http://www.wildlist.org).

<u>Virus Detection/Scanning Capabilities</u>
- Anti-virus software shall be capable of detecting malicious software before it is executed.
- Shall support both On-Access (real-time) and On-Demand (flexible) scanning capabilities.
- Shall provide detection for all "in the wild" virus types (boot viruses, file viruses, macro viruses, and script viruses).
- Shall provide detection for Zoo type viruses (file viruses, macro viruses, script viruses, polymorphic viruses, other malware, false positives).
- Shall provide detection for archived and compressed file types (.ZIP, TAR, LZH, recursive and self-extracting archives, runtime-compressed files).
- Shall provide scanning capabilities for all standard office file formats (including embedded OLE objects and password protected files).
- Shall provide for flexible configuration to include/exclude file types, drives and directories from scans.
- Shall support both Inbound and Outbound real-time scan protection.
- Shall provide Internet Download and Content scanning for protection from suspicious web content, including:
  - ActiveX filtering and scanning
  - JavaScript filtering and scanning
- Shall provide Heuristic-scanning capabilities (intelligent analysis of unknown or suspicious sections of code).

<u>Virus Reporting Capabilities</u>
- Anti-virus software shall provide the ability for detection notification via both audio and visual alerts.
- Anti-virus software shall provide remote notification of administrative alerts via the following methods:
  - SMTP/E-Mail
  - SNMP Alerts
  - Log to a file
  - Log to an Enterprise Repository

<u>Post-Detection Anti-Virus Action Capabilities</u>
- It is highly desirable that anti-virus software be able to eradicate malicious software and viruses detected through the following means:
  - Quarantine – moving the infected file into an area where it cannot cause more harm.
  - Virus Removal – allows for repair of the damage caused by the virus.
  - Deny Access – prohibits the file from being accessed once infected.
  - Delete – complete removal of the infected file from the system.

	Virus Scan Engine Update Capabilities
	<u>Virus Scan Engine Update Capabilities</u> • Anti-virus signatures need to be updated continuously, either through a manual or automated process. • Shall provide a secure procedure for keeping the detection engine up-to-date with the latest detection signatures & scan engine techniques. • Shall provide for automated updates of both scan engine and signatures on a scheduled interval or as needed. • Virus scan engine shall have the ability to stay up-to-date with the latest developments in malicious software detection. <u>Anti-Virus Software Configuration Security</u> • Anti-virus product configurations and settings shall be able to be password protected to prevent misuse and disablement. • Anti-virus software shall support multiple & customizable definitions of security and rights to various levels of the software configuration settings. <u>Anti-Virus Installation Criteria</u> • Anti-virus software shall be capable of automatic deployment and installation via the following: o Installation via image – anti-virus software shall be able to be included in the standard workstation image deployed within the enterprise. o Remote installation – Anti-virus software shall support deployment to remote systems (not locally-connected) providing the same level of protection to these devices. • Anti-virus software deployment (and updates) shall be transparent to end-users. • Anti-virus software shall provide "Wizard-enabled" installation routines to automate and expedite installation. <u>Service and Support</u> • State of Missouri anti-virus protection products shall be backed by vendors who offer 24 x 7, 365 days a year phone support. • Anti-virus vendors shall provide a comprehensive documentation and assistance package, including a facility for pro-active timely warnings of new malicious software and virus events. • Anti-virus vendors shall provide "Virus Catalog Support" including: o A lexicon of known viruses detailing descriptions, how they are spread, what they do, how they are recognized and how to remove them. o Downloads or links to disinfection tools. o A clear and concise description of the anti-virus tools functionality, including procedures for updating the product with new detection signatures. o General advice to end-users on attacks and avoidance measures.

Document Source Reference #	N/A		
Standard Organization			
Name	ICSA Labs	*Website*	www.icsalabs.com

Contact Information	ICSA Labs is a division of TruSecure Corporation and can be reached at 1-888-396-8348 (info@trusecure.com)

Government Body

Name	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC)	Website	http://csrc.nist.gov/
Contact Information	inquiries@nist.gov		

KEYWORDS

List all Keywords	Virus, virus detection, malicious code, virus products, virus reporting, anti-virus vendors, anti-virus engine, zoo, trojan horse, backdoor, worm, stealth, blended threat, boot sector infector, companion, denial of service, dropper, file infector, logic bomb, malware, multi-partite, overwriting, parasitic, polymorphic, tunneling, variant, terminate and stay resident (tsr), management, PC

COMPONENT CLASSIFICATION

Provide the Classification	☐ Emerging ☒ Current ☐ Twilight ☐ Sunset

Rationale for Component Classification

Document the Rationale for Component Classification	

Conditional Use Restrictions

Document the Conditional Use Restrictions	

Migration Strategy

Document the Migration Strategy	

Impact Position Statement

Document the Position Statement on Impact	

CURRENT STATUS

Provide the Current Status)	☐ In Development ☐ Under Review ☒ Approved ☐ Rejected

AUDIT TRAIL

Creation Date	02-06-2003	Date Accepted / Rejected	02-27-2003
Reason for Rejection			
Last Date Reviewed		Last Date Updated	
Reason for Update			